du Treil, Lundin & Rackley, Inc.

1 . 1992

A Subsidiary of A. D. Ring, P. C.

... Portion Commission

Daige of the Septerary

March 12, 1992

Ms. Donna R. Searcy Secretary Federal Communications Commission 1919 M Street, N.W. Washington, D.C. 20554

RM-7651

Dear Ms. Searcy:

It is requested that the attached material concerning stations WKNO-FM and WSMS, Memphis, Tennessee, be associated with RM-7651.

THE PORT A

The attached material shows that these two FM stations located in the same vicinity and separated by only two channels do not experience interference.

Kindly contact the undersigned should there be any question with respect to this matter.

Very truly yours

Enclosure

Mr. Ben Dawson

Mr. Don Everist

LRD: las

DLR:2248

No. of Copies rec'd

James Dr Sadler-Howard T. Fread Jerome E. Sadler

Harold L. Kassens Ogden L. Prestholdt J.W. Stielper



TRIPLICATE

LAW OFFICES SCHWARTZ, WOODS & MILLER RECEIVED

FEB 1 1 1991

SHITE 300, THE DUPONT CIRCLE BUILDING 1350 CONNECTIONT AVENUE, N.W.

WASHINGTON, D. C. 20036-1702

Federal Communications Commission

FEB 12 2 31 PH Office of the Secretary

ROBERT A. WOODS LAWRENCE M. MILLER STEVEN C. SCHAFFER MALCOLM G. STEVENSON

CAROL IANNONE BROADBENT

GLENN S. RABIN

CABLE: SWMLAW

AUDIO CERVICES

(202) 833-2351

202-833-1700

OF COUNSEL LOUIS SCHWARTZ

February 11, 1991

TAX COUNSEL MAG. MARK B. WEINBERG

Ms. Donna R. Searcy Secretary Federal Communications Commission Washington, D.C. 20554

PECEIVED

MAR 1 3 1992

- mesingag - Godmissira

Public Stations Re:

More the Societary WKNO-FM, Memphis, Tennessee FCC File No. BPEX-881128ME BLEX-960306 KB

WSMS(FM), Memphis, Tennessee FCC File No. BPEX-881128MF BLEX-9009 26 KA

Dear Ms. Searcy:

On behalf of Mid-South Public Communications Foundation and Memphis State University, we are filing herewith, in triplicate the parties' complete report pursuant to the conditions specified in the above-referenced experimental authori-The parties will gladly supply any additional information which you may require in connection with this project.

Please address any questions concerning this matter to this office.

Respectfully submitted,

SCHWARTZ, WOODS & MILLER

MGS/abk

Robert Greenberg, FCC, #332

FFB 1 1 1991

FEB 12 2 31 PH '91

Federal Communications Commission
Office of the Secretary

AUDIO SERVICES

Chief, FM Branch Federal Communications Commission 1919 M Street, NW Washington, D.C. 20554

RE: Public Stations

WKNO-FM, Memphis Tennessee FCC File No. BPEX-881128 ME

WSMS-FM, Memphis, Tennessee FCC File No. BPEX-881128 MF

Dear Sir:

On behalf of the Mid-South Public Communications Foundation and Memphis State University, we submit herewith the complete report pursuant to the conditions specified in the above-referenced Experimental Authorizations.

Our conclusion is that no overwhelming interference between the two stations is apparent within the prescribed test area.

Respectfully submitted,

Michael J. LaBonia President & CEO

WKNO-TV/FM

Respectfully, submitted,

Richard R. Ranta, Dean

College of Communication & Fine Arts

Memphis State University

BACKGROUND SUMMARY

This report is prepared by Mid-South Public Communications Foundation, licensee of Station WKNO-FM, Memphis,
Tennessee and Memphis State University, licensee of public Station WSMS(FM), Memphis, Tennessee, pursuant to the conditions set forth in experimental authorizations issued by the Commission in connection with modifications of their respective facilities (File Nos. BPEX-881128ME and BPEX-881128MF). In a cooperative venture, Stations WKNO (Channel 216) and WSMS (Channel 219) applied to the Commission to increase WKNO from 40,000 to 100,000 watts, increase WSMS from 250 to 25,000 watts directional, and relocate the WSMS transmission site to a location within the WKNO 100 dBu contour.

Upon receipt of their experimental authorizations on April 3, 1989, the parties proceeded to construct the authorized facilities. During the summer of 1990, the broadcast tower of WSMS was accidentally destroyed, causing the station, still operating at 250 watts, to temporarily cease operation with the Commission's permission. WKNO, having already installed its facilities to increase the stations power, applied to the Commission in July 1990 to proceed with its power increase and perform certain tests in anticipation of the testing program prescribed by the Commission in its experimental authorizations for the stations. With WSMS off the air, WKNO measured field strength and checked radios for interference as prescribed in Paragraph 1 of Special Operating Conditions or Restrictions which are part of

the experimental authorizations. The results of those tests were supplied to the Commission December 21, 1990. The instant report sets forth measurements, analysis and other information pursuant to Paragraph 4 of the Special Operating Conditions or Restrictions.

EXPERIMENTAL OPERATION

WSMS resumed broadcasting in accordance with its experimental authorization on December 10, 1990. In order to assure maximum exposure prior to the commencement of the experimental operation, advertisements were first placed during the weeks of October 22 and 29, 1990, in the Daily News, the local legal newspaper and then, two weeks prior to commencement of experimental operation, in the Commercial Appeal, the largest local newspaper (circulation: 219,000), as prescribed in Paragraph 2 of Special Operating Conditions or Restrictions (Exhibit A).

During the first two weeks of operation (December 10-24, 1991), both stations made announcements every two hours explaining the experimental nature of the broadcast operation of the stations and advising listeners to call should they experience interference (Exhibit B), as prescribed in Paragraph 3 of Special Operating Conditions or Restrictions. Results of those announcements produced virtually no calls indicating interference between the two stations (Exhibit C). Measurements of the two

stations' relative field strength and practical reception tests with five radios were performed January 22, 23 and 24, 1991, as prescribed in Paragraph 1 of Special Operating Conditions or In this connection, it should be noted that there Restrictions. was some variation between these field strength measurements and those taken during the summer of 1990 by WKNO. These variations in all likelihood were due to the differences in atmospheric and climatological conditions attending the measurement sessions; the summer measurements were conducted in 90-degree weather while the winter measurements were conducted in 30-degree weather. After transferring the 100 dBu contours of both stations to a current road map, a grid consisting of horizontal and vertical lines separated by 2 kilometers was laid. Tests were performed at each intersection of the grid by Mr. Pat Lane, Chief Engineer of WKNO and Mr. Barry Less, Broadcast Engineer of WSMS (Exhibit D). receivers of varying cost and quality were chosen, including one standard AM/FM car receiver with analog tuning, one digitally tuned car receiver, one portable receiver with analog tuning, one home-type receiver with digital tuning and one headset-type receiver with analog tuning (Exhibit E). Mr. Lane and Mr. Less judged interference on each receiver at each test site (Exhibit F).

SUMMARY AND ANECDOTAL INFORMATION

Telephone calls from listeners during the first two

weeks of experimental operation indicate no pattern of interference involving the two stations. These calls are summarized in Exhibit C. Between 9:30 - 10:30 a.m. on January 8, WKNO received seven telephone calls indicating that WSMS was clearly audible in the background of WKNO. These callers were all located within one-quarter of a mile of each other in an area outside of the 100 dBu contours of the stations. Engineers from both stations immediately checked to confirm that both stations were operating as prescribed and travelled to the area south of the stations' transmission sites from which all of the complaints had come to perform practical tests with various receivers. engineers found no interference and telephone calls to WKNO ceased. We can only assume that an atmospheric anomaly caused the sudden problem. The only other remarks from the public subsequent to the initial two-week test period have involved listeners who have experienced "difficulty tuning the stations" on very inexpensive receivers outside the 100 dBu contours of the stations.

Our conclusion is that, with few possible exceptions, there is no significant interference between the stations as a consequence of their experimental operations.

Exhibit "A"

The second of the second of the second

550 565 565 485 Business ACCOUNTING CLERK: Perm.
Pert-lime soution. Pt em. as
Mr. Raise 80 dars. Fee Ps.
MADISON Personnel Ni-Bada
ACCOUNTS Pav. CR. assessed
Detail oriented w/accurate
typing & date entry stills.
1300-1500 keystrokes. 4 vrs.
min. etc. Team plarer.
Send Replies to Bos R-edz
C/o The Commercial Assess
#55 Union Ave.
Memphis, TN 38163
ACCOUNTS RECEIVABLE
CLERK, Entry levely seation
positing customer remittances. Bling. calling bast
die accounts. Send resurra
to P.O. Box 12272, Memphis,
TN, 38182.
ACCOUNTS PAYABLES/AR.
ACCOUNTS PAYABLES/AR.
ACCOUNTS PAYABLES/AR. FREEDS. he, on, super parts, est compares on sed. 80-580 080, 801-07-2537
RENTAL RETURN or v. 610°, soft sed. ADOPTION We are a baseling married couple beeing to second a newborn baby. We can erevide lots of leves a close-knit temits, christian values and a menderful stable home. Expenses paid, Confidential Call Margaret & Pete Collect Anvilma, 914-774-1047. CAT black/white, male, neu-tered, 1½ yrs. eld, ver-friendly, blue collar, 51. Francis area, REWARD 655-5141, 685-6503. CHANGE Careers in 6 Months Call 763-3400 BRANELL COLLEGE FREE Yourself! Career Irains ing 6-9 mo. ConCorde Career Institute \$100 Poplar 761-864 LEARN A LIVING
Phillips Junior Cellege
1648 Sycamore View 377-1200
STOP Leaking-Stert Trainings
Call News RICE COLLEGE
3465 Union 324-7423 314, 850-500.
CAT, derk grey male, forn ser, no celler. We're franticiplease help us find this very loved & very missed cat-mid-fown areal Reward 274-7851. GED CLASSES COMPUTER iown sceal Reward 27-751
CAT gray tabby w/white mertings, sliver collar w/blue stones. Lost near Blockuster at Kinghi Arnold 262-255.
CAT, large, black w/white feet & brown Collar, male, lost Cordova area. 732-2470.
CAT, white female, dest, w/words collar, lost Crumo Etementary area. 362-1773.
CAT-6 mo, gray male tabby. SKILLS NOW PLANNED MOTHERHOOD **SEARS** Date Entry, Word Processing & other popular software sidils. Day & eve, classes eval. NO CHARGE ORTION, BIRTH CONTI VASECTOMY TUBAL LIGATION CONTRACT SALES doubletion Center 332-7800 **Medicald Accepted** WHOLESALE **Call Today** APPLIANCES (901) 722-8148 DRAUGHONS JR. 725-6614 4444 Deto St. PREGNANT? FREE test & counts CAT-6 mo. gray male tabby Park/Calonial Rd. Winstor Overstocks, scretched & COLLEGE Miller Hawkins AUTRIAN booths for rent. heirdryers for sele 344-851 discondinued appliances # 12-62-9154, 9500 Reward.
STOCK BAND, Mon's white sold, 3 diamond, Lest Fri.
1/73, 754-984 or 323-6109. hairdryers for sale 34-451
BOOKKEEPER/TYPIST, Will
frain. Approx. \$15,000 yr.
Good future in management.
Apply 1271 Poplar. 3200 Elvis Presley At Brooks Rd. EGGISTER ante, brasgordister ante, brasworks perfectiv, 600
g01/252-9734 N. Serlings.
15. English before tol.
15. English before tol.
15. English before tol.
15. English before tol.
15. 1235
vran 15. Allogenie
15. Allogenie
15. Allogenie
15. Allogenie
15. Allogenie
15. Allogeni No ACT Required—Placement Asst, to Grade, Financial Aid Available For These Who Quality Apply 1371 Poplar.

CARPENTER Apprentice, add.
work. Ph. Trans. 735-737.

CARPENTERS CORNICE only
asperienced, others not better.
Physical Physics of the Control of the Control
CARPET cleaning technician
needed. 57-5372

CARPET installers & helpers
with 3 yrs. esp. 754-758

CASHIERS Convenience
stores/gas/Bartiert/E, Maha.
good pay, Michele 756-778 526 551 TKNO-FM and WSMS-FM are about to commence experi-mental operation at in-creased sower. Should via experience difficulty receiv-ing the stations, please notify after WKNO of 224-556 or WSMS at 678-3672. BEAGLE Type, female, found Nov. 24 Ridgeway & Quince, 364-903

CAT black male adult, white collar wires (Loon), Nickory Hill afea. Reward, 75-762

CHOW MIX black male found 11/21, follywood & Central area. 572-356 or 327-781.

DOG on Sanga Rd. small black, 753-259.

DOG, small Black Female, long baired, Hickory Hill & Raines area, 362-1807.

DOG-Small red, boastibly Shelte, edder, Found on Sweetbrier, 761-3444.

KITTEN-Female, Brown files. Private 615 Instruction and Tutoring Counseling

INTELLIGENCE JOBS. All
branches. US Customa. DEA.
etc. Now Hirling. (1)805-647600 E21. K-1902.

LABORERS wanted, product
assembly: Earn to 55.50 e hr.
assembly: Earn to 56.50 e hr.
assembly: Earn to 56. LEARNING SKILLS, INC.
All opes: Read/Math/Writing
Pyt, Customized Sessions
Adult: GED/Gov/Job Preo.
Reasonable fees. 753-637. 530 EMPLOYMENT CLERICAL POSITION WBE & MBE
SUBCONTRACTING
QUOTATIONS
QUOTATIONS
QUE are actively solicities
QUOTATIONS
QUE are actively solicities
QUOTATIONS
QUE are actively solicities
QUE are actively 905 tables, Bally \$425; Walnut, \$306, \$225/\$300, \$50-367. 610—Employment Agencies 615—Employment Services, Counseling 620—Household Help 623—Help Wanted 430—Help Wanted, Part Time 642—Employment Wanted Entry level clerical position evallable in the business of-fice. Typing & data entry ex-perience required. Book-keeping exp. helpful. Asaly in person between the hours of form & Jam Mon-Fri. 81: ERIA OF ANTIQUES
S. FRONT STREET
Welcome \$24-8573 brier, 761-3444.

KITTEN-Female, Brown flea coller, Green coller w/bell.

Nr. Kroger Midtown, 724-4220

MALAMUTE-(7), black w/white logs, 11/21, South of Park B. Estate, 485-0051

POOL B-black, 6-7. Bad vision, Found Nov. 17 on Porkins of 1-40, 274-3443 Welcome \$20-8573 made in 1916 865; Un-sed typerwriter from \$40; Old Chesapoote & RR framed paster of misburg 185, 488-4736 "Help Wanted" advertise-ts must represent a defi-at employment, Any-HILLHAVEN-RALEIGH "All Help Wanted advertisements must represent a defi-nite offer of employment. Any-one encountering false, misleading or fraudulent job offers advertised in these cal-ums is encouraged to confact the Better Business Bureau of Memphis, 272-9441; or Tennessee Personnel Reconti-ment Services Board, 1858 W. End Bildg. Nashville, TN 37219-S322, 415-741-700. M/F/Y/H 620 BABYSITTER, meture responsible exp'd woman to care for newborn in my home. M-F, excel rets. E own transp. reg'd, 754-894 for apot. you witnessed an accident a Oct. 17, 6:20pm, at Union Parkway, brown TransAm I bive car call 36-530. INSTRUCTION NIS FLEA MARKET*
One' 3 buildings of the
sunday DEC, 18 2 For
sunday DEC S322, 415-741-4700.

WHEN YOU ANSWER A "Box Number Ad"
Be Sure to Use Both
Letter & Number
When writing in reply to a
Commercial Appeal Want Ad
published with a "blind" address or "Box number" as a
signature instead of the advertiteer's name, address or shone
number, BE SURE you use AS of this date, I will not be responsible for any debts ther than my own, Charles L. Sanders, XIM New Down MEMRY THOMAS GUNTER, M.D. will be closing his Southean office in Dec. 327-446 pr further information. Vocational and 560 Trade Schools a Out Of Businessi its Mon-Set 104, Sun 1-4 steh et Clarke 795-1710

Nov. 27, 1990 Dec. 1, 1990 Dec. 4, 1990 Dec. 8, 1990 Exhibit "B"

Interference announcement

WKNO and WSMS have commenced experimental operations at increased power. If you have difficulty receiving WKNO, please call us at 323-9566.

Exhibit "C"

WKNO INTERFERENCE TELEPHONE CALLS

Comments Name/Address/Phone Receiver Hissing sound in home Sue McLain Car & Home 3577 Bishops Gate receiver. (unspecified) Memphis, TN 38115 (901) 360-9877 John Sendlein WKNO is OK, but 90.3 **Technics** 1643 Kimbrough Park Pl. SAS (PRM) is worse. Germantown, TN 38138 (901) 754-0026 Elizabeth Brondos Sears Bleed over of WEVL (89.9) 1413 Hawkcrest Cove /a, TN 38018 (901) 757-2432 Not Given Not Given Intermittent static. Has Midtown (In basement with other electronic equipment Memphis, TN antenna on roof) that may cause problem. Not Given Home Static and interference. 1565 Cedar Farms Cove Cordova, TN 38018 Jackson Residence Œ Static during past week. No

notice of bleedover from othe

stations.

4501 Forrestall

(901) 873-3306

Millington, TN 38053

WSMS INTERFERENCE AND GENERAL COMPLAINT LOG

Name/Address/Phone	Receiver	Comments
Jimmy Braden 3520 Walker Memphis, TN 38111 (901) 323-3416	Panasonic manual tuner	Static in background
Don T. Vann 3555 Vernon Memphis, TN 38122 (901) 454-9566	Jambox	Background hiss
Selden Haizlip 245 Wagner Me nis, TN 38103 (901) 527-4433	Marantz	Static comes and goes
Kirk furner 920 Madison, Ste. 434 Memphis, TN 38103 (901) 525-9877	Cassette/Receiver Small transister radio	Statiac on cassette/receiver kept in a closet. Signal is fine on transister radio
Jack Dempsey 5400 Park, #217 Memphis, TN 38119 (901) 523-8990	Car Radio	Static in background
Johnny Williams 1804 Glenview Me nis, TN 38114 (901) 274-3190	Sony stereo- digital tun	er Static under signal. Clearer at night.
Jan. Harrington 1923 Sea Isle Rd. Memphis, TN 38117 (901) 685-8002	Boombox/AM-FM cassette unit	Bleeding over KASU in Jonesboro, Arkansas
Jerry Davis 2713 Chelsea Memphis, TN 38108 (901) 327-0659	GE portable	Signal fading/fuzzy
Darrel Bleckley 245 N. Bellevue Memphis, TN 38105 (901) 276-2562	AM/FM portable	Fading/static

Name/Address/Phone

Marie Williams Mid-South Mental Health Ctr. Danny Thomas at Linden Memphis, TN 38103 (901) 577-0200

Van McCurley 1081 Court Memphis, TN 38104 (901) 522-9360

Eric Pugh 218 Jemocrat Rd. Memphis, TN 38132 (90 922-6036

Jarek Pryor 127 N. Montgomery Memphis, TN 38104 (901) 274-6856

Steve Shipp 1506 Monroe Memphis, TN 38104 (not given)

Alan Iskiwitz 567 Vantage Point Memphis, TN 38131 (901 682-0909

Regina Moore 3670 Shady Hollow Rd. Memphis, TN 38116 (901) 332-0443

Allex Calvin 7790 Deer Lake Drive Memphis, TN 38053 Receiver

Small transister

Digital tuner

Transister AM/FM/ Shortwave

Non-digital Sony

Sansui 7000

Onkoyo Tuner

Car radio/non-digital tuner

Comments

WKNO sometimes plays over WSMS. Problem occurs mostly in the morning. 99% of time WSMS is fine. (She is in an office on first floor with no windows.)

Fades in and out/hiss. OK at night.

fading

fading in and out

Static interference

Signal fades in and out. Loses stereo occasionally.

WKNO overiding WSMS signal. Problem far worse prior to power increase.

Weak signal in Raleigh area

Exhibit "D"

On January 22, 23, and 24, 1991, field strength and interference measurements were taken at 45 monitor points by Barry Less of WSMS and myself.

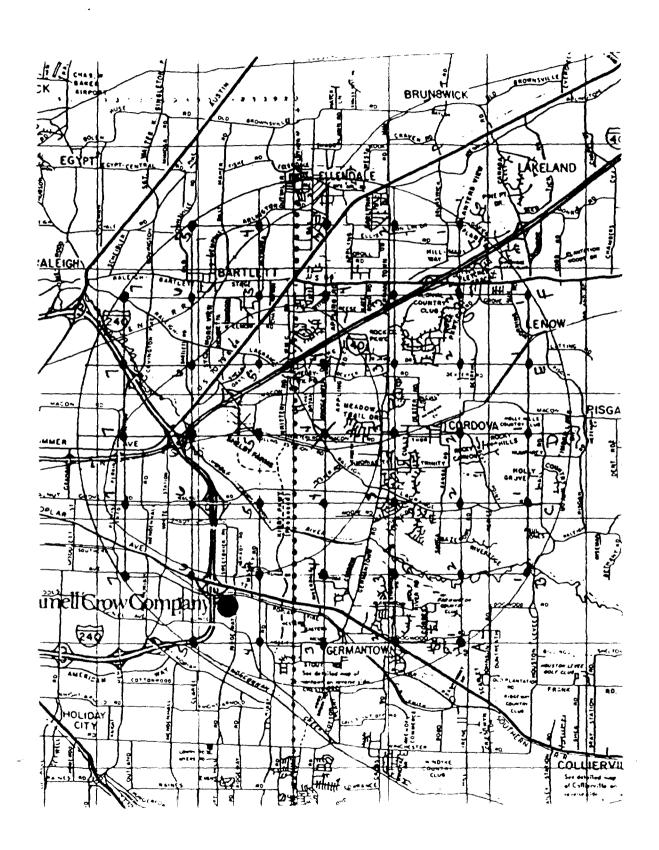
A Potomac Instruments field strength meter, Model FIM-72, serial number 443 was used in conjunction with a Model ANT-71 antenna at a height of 7 feet above ground.

Direct readings were recorded as well as readings multiplied by a 2.4 constant as specified for the ANT-71 antenna chart at the operating frequency. The "Adjusted Reading" on the measurement sheets takes this constant into consideration.

Pat Lane_

Chief Engineer, WKNO-TV/FM

1/24/91



٠,

Exhibit "E"

The following receiving equipment was used for these tests:

Audiovox Model AV-932 digital car radio;

An analog tuning car radio supplied from the automobile factory mounted in a 1985 Honda Accord hatchback;

A Toshiba Model RP-A830 "Walkman" style headset receiver;

A Realistic Model SCR-19 analog "boom-box" type receiver;

And a Scott Model RS-30A digital receiver.

Pat Lane 1 210 Chief Fraince

Chief Engineer, WKNO-TV/FM

Date: 1/24/91

Exhibit "F"

COORDINATES	C LOCATION	STATION	READING	. us	₄ Rda.		COMMENTS
A - 2	Forest Hill Irene at Dogwood	WKNO WSMS	13 1.9	31 4.5		No	Interference
A · 3	Dogwood at Kimbrough	WANO WSMS	22 2.4	53 5.8		No	Interference
A - 4	West end of McVay Road	WANO WSMS	1 4 4.4	33 11		No	Interference
A - 5	Massey at Kirby Oaks	WANO WSMS	1 2 5.7	29 14		No	Interference
A - 6	Crestwood at Lyford	WANO WSMS	5.3 2	13 4.8		No	Interference
B-1	Houston Levy South of Wolf River	WKNO WSMS	11.5 3	28 7.2		No	Interference
B - 2	488 Doe Trail Cove	WKNO WSMS	26 6	62 14		No	Interference
B-3	North end of Kimbrough	WKNO WSMS	26 6.7	62 16		No	Interference
B-4	Neshoba at Riverdale Park	WANO WSMS	1 4 1 4	34 34		No	Interference
B-5	End of International Pl. N. of Popla	r WKNO WSMS	32 8.2	77 20		No	Interference
B-6	900 June at Poplar	WANO WSMS	1 7 4.5	4 1 1 1		No	Interference
B-7	Perkins at Crossover	WKNO WSMS	3 0.9	7.2 2.2		No	Interference

COORDINATES	WNNO-FINI and WSMS-FIM F S LOCATION	•	•	Adjusted Rdg.	COMMENTS
	,				
C-1	Walnut Grove 1000 ft. W.of Hall Rd.	WK/VO	15	36	No Interference
		WSMS	2.5	6	
C-2	Walnut Grove at Forest Hill Irene	WKNO	13	31	Toshiba radio unusable due to
		WSMS	1.25	3	interference from WEVL.
		WEVL	580	1400	Interference to Realistic radio on WSMS and WKNO from WEVL.
C-3	8135 Walnut Grove Rd.	WKNO	21	50	No Interference
0 0	5 TOO TTAINING GIOVO TTAI	WSMS	4.8	12	
C-4	Behind Agricenter Building	WKN0	82	197	No Interference
		WSMS	11	26	
C-5	Farm Rd. 300 Ft. S. of Walnut Grove	WKNO	92	221	No Interference
		WSMS	17	41	
C-6	12 East Yates at Walnut Grove	WKNO	23	55	No Interference
		WSMS	37	89	
			_		
C-7	Walnut Grove at Perkins in parking	WKNO	7	17	No interference
	lot of Holy Communion Church	WSMS	3.8	9	
D-1	Woodland Hills at Woodland Trace	WKNO	1 4	33	No Interference
		WSMS	3.2	7.7	
D-2	Macon & D St. in parking lot of	WKNO	10.5	25	No Interference
- -	Cordova Baptist Church	WSMS	4.2	10	
0.0	Manage at Condaire Station	1444	1.0	0.4	No Interference
D-3	Macon at Cordova Station	WKNO WSMS	1 0 4.1	24 9.8	No Interference
		MACINIC	4.1	3.0	

COORDINATES	S'LOCATION	STATION	READING	A is Rdg.	COMMENTS
D-4	7192 Raleigh LaGrange Rd. in front of WKNO transmitter building	WKNO WSMS	3000	7200 0	WSMS readings unavailable due to field strenth meter overload. Toshiba and Realistic radios had severe interference to WSMS from WKNO.
D-5	Mullins Station at Farm Road	WANO WSMS	72 210	173 500	No interference
D-6	I-40 at I-240 S.E. end of interchange	WKNO WSMS	5 6 4 0	134 96	No Interference
D-7	Perkins North of Summer at parking lot of Berclair School	WKNO WSMS	1 3 5	31 12	No Interference
Ĺ-1	Pisgah Rd. South of Letting	WKNO WSMS	3.3 3.4	5.7 8.2	No Interference
E-2	Berryhill North of Dexter Road	WKNO WSMS	10.5 3.6	25 8.6	No Interference
E-3	Briarwood Church parking lot near Germantown Road and Woodchase	WKNO WSMS	5 5	12 12	No Interference
E - 4	Goodlett Farms at Garret Ridge	WKNO WSMS	110 3.6	264 11	No Interference
E-5	Raleigh LaGrange at Goldbrier	WKNO WSMS	31 18.5	7 4 4 4	No Interference
E-6	Bartlett Road at Wagon Gap Road	WANO WSMS	49 7.1	118 17	No Interference
E-7	I-240 near Covington Pike	WANO WSMS	45 7.4	108 18	No interference, but tuning real sharp on Toshiba receiver on WSMS.

COORDINATES	S'LOCATION	STATION	READING	L us Rdg.	COMMENTS
F-1	Morning Sun at Highway 64	WKNO WSMS	0.73 0.5	1.8 1.2	No interference
F-2	8939 Highway 64	WKNO WSMS	2.8 4.3	6.7 1 0	No interference
F-3	Germantown Road North of I-40	WKNO WSMS	26 5.4	62 13	Some static on WSMS on Toshiba radio while walking
F-4	Appling at Oakfield	WKNO WSMS	32 4.7	77 11	No interference
F-5	Alturia at Juneway	WKNO WSMS	47 8.6	113 17	No interference
F-6	2825 McCulley	WKNO WSMS	17.2 3.1	41 7.4	No interference
F-7	4625 Raleigh LaGrange Road	WKNO WSMS	1 7 1	4 1 2.4	Toshiba radio noisy on WSMS due to weak signal.
G-2	Davies Plantation E. of Planters View	WKNO WSMS	3 2.3	7.2 5.5	No interference
G-3	3700 Germantown Rd. at entrance to Memory Hill Funeral Gardens	WANO WSMS	1 2 5.3	29 13	No interference
G-4	Marietta at Broadway	WKNO WSMS	20 4.1	4 8 9.8	No interference
G-5	Memphis-Arlington Rd. at Alturia	WKNO WSMS	43 2.9	103 7	Toshiba radio has some inter- ference to WSMS while moving.
G-6	5501 Peyton Randolph St.	WKNO	26.5 1.9	64 4.6	Toshiba radio has some inter- ference to WSMS while moving.